	Application No.	Applicant(s)	(m)
Notice of Allowshills	10/718,920	CHI ET AL.	<u>G.</u>
Notice of Allowability	Examiner	Art Unit	
·	Andy Huynh	2818	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included nerewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.			
1. X This communication is responsive to the Election dated 03/03/2005.			
2. X The allowed claim(s) is/are <u>1-32</u> .			
3. ☑ The drawings filed on <u>29 July 2004</u> are accepted by the Examiner.			
Acknowledgment is made of a claim for foreign priority up a) ☐ All — b) ☐ Some*—c) ☐ None—of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received:	e been received. e been received in Application No		tion from the
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.			
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.			
6. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner Paper No./Mail Date ldentifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the street of the sheet of t	son's Patent Drawing Review(PTO- 's Amendment / Comment or in the C	Office action of ngs in the front (not the	e back) of
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT 	osit of BIOLOGICAL MATERIAL I FOR THE DEPOSIT OF BIOLOGIC	must be submitted. I AL MATERIAL.	Note the
Attachment(s) 1. ⊠ Notice of References Cited (PTO-892) 2. □ Notice of Draftperson's Patent Drawing Review (PTO-948)	5. Notice of Informal F	(PTO-413),	O-152)
 Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 03/15/2004 	Paper No./Mail Da 08), 7. 🗌 Examiner's Amendi	ment/Comment	
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Stateme	ent of Reasons for Allo	owance
of Biological Material	9. Other		
Patent Examine			
	Patent	Examine	
	AU 281	8	

DETAILED ACTION

Election/Restrictions

Claims 1-16 are directed to an allowable product. Pursuant to the procedures set forth in the Official Gazette notice dated March 26, 1996 (1184 O.G. 86), claims 17-32, directed to the process of making or using the patentable product, previously withdrawn from consideration as a result of a restriction requirement, are now subject to being rejoined. Claims 17-32 are hereby rejoined and fully examined for patentability under 37 CFR 1.104.

Since all claims previously withdrawn from consideration under 37 CFR 1.142 have been rejoined, the restriction requirement made in the previous Office action is hereby withdrawn.

Accordingly, Claims 1-32 remain pending in the application.

Allowable Subject Matter

Claims 1-32 are allowed.

The following is an examiner's statement of reason for allowance:

Claims 1-16 are allowable over the prior art of record because the prior art of record does not teach or render obvious a strained channel semiconductor device comprises a first deformation in one side of an active area for selectively enhancing or reducing a residual lengthwise stress in a channel by producing additional lengthwise tensile or compressive force in the active area, and in combination with all other features as recited in independent claim 1.

Claims 17-31 are allowable over the prior art of record because the prior art of record does not teach or render obvious a method of selectively enhancing or reducing carrier mobility in a strained channel semiconductor device, the method comprises forming a first deformation in

one side of an active area to selectively enhance or reduce a residual lengthwise stress in a channel by producing additional lengthwise tensile or compressive force in the active area, and in combination with all other features as recited in independent claim 17.

Claim 32 is allowable over the prior art of record because the prior art of record does not teach or render obvious a method of selectively enhancing or reducing carrier mobility in each of several zones of a channel disposed in an active area of a strained channel semiconductor device fabricated in and on a generally planar semiconductor segment, the method comprises forming one or more deformations in one or more of the sides of the active area to selectively enhance or reduce a residual lengthwise stress in selected zones of the channel by producing additional lengthwise tensile or compressive force in the respective zones, and in combination with all other features as recited in independent claim 32.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andy Huynh whose telephone number is (571) 272-1781. The examiner can normally be reached on Monday-Friday 8:30am-5:00pm.

Art Unit: 2818

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on (571) 272-1787. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9306 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ah

Andy Huynh

and Must

04/12/05

Patent Examiner